## Attachment 6 - RCRA Pond Perimeter Surface Monitoring

	Pon	4 8E	Pond	QF I	Pond 8S	Phase IV	Por	d 15S		d 16S		d 17	Pond		Surface Monitoring
Date	Breathing zone	Detection R	Breathing zone		Breathing zone	Breathing zone general Sone General Detection	Breathing zone	ction	Breathing zone	Detection 91	Breathing zone	Detection 1	Breathing zone	Detection	Comment
July/August/10		No			0.00 No			Yes		IS	0.00	No	0.00	No	Pond 15S detection locations were marked and the entire pond cap surface was monitored
October-10 November-10	0.00	No No	0.00 NS	No	0.00 No	0.00 No	0.00	No No	0.00	No IS	0.00	No No	0.00	No No	
December-10	0.00 N		NS		NS	NS	0.00			IS	0.00	No	0.00	No	8E perimeter was snow covered for the month.
January-11	N'		NS		NS	NS		W		1S		W		W	8E, 15S, 17, and 18A were snow covered for the month
February-11	N'		NS		NS	NS	0.00		0.00		0.00	No	0.00	No	8E perimeter was snow covered for the month.
March-11		No	0.00		0.00 No		0.00			NS.	0.00	No	0.00	No	
April-11 May-11	0.00	No No	0.00		0.00 No	0.00 No	0.00	No No	0.00	IS No	0.00	No No	0.00	No No	
June-11	0.00	No	NS		NS NS	NS NS	0.00	No		NS	0.00	No	0.00	No	
July-11	0.00	No	NS		NS	NS	0.00	No		1S	0.00	No	0.00	No	
August-11	0.00	No	0.00		0.00 No			No	0.00		0.00	No	0.00	No	
September-11	0.00	No	NS		NS	NS	0.00	No	N	1S	0.00	No	0.00	No	2 1404 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
October-11	N	IS	NS		NS	NS		NS	N	1S	N	IS	0.00	No	Pond 18A enhance monitoring (10/10/11) Pond 18A enhance monitoring (10/25/11)
	0.00	No		_			0.00	No			0.00	No	0.00	No	Pond 15S (11/2/11), Pond 18A (11/8/11)
	ī	=	NS .				0	Yes			=	ē	-	=	Pond 15S (11/16/11), from Soils gas probe #15 to #3 and west standpipe excavation area. 0.05 ppm was found near probe #15, and #2. Investigate afterward pin pointed PH3 from the base of soil gas probe #2, and could not find any PH3 again around probe #15. Will re-seal the base of soil gas Probe #2. Pond 15S and 18A (11/21/11) On pond 15S 0.05 ppm was found approximately 20' east of soil gas probe
November-11	-	-			NS	NS	0.00	Yes	NS	-	-	0.00	No	#2, and 0.06 ppm approximately 38, east of soil gas probe #2. On 11/22/11 rodent holes were found near these location. The holes were filled back up with soil, and re-sample shows 0.00 ppm afterwards.  Pond 15S (11/23/11), 0.05 ppm was found approximately 21' west of soil probe # 2, no rodent holes nor	
	-	-					0.00			-		-	-	-	Point 155 (11/28/11), 0.05 ppin was round approximately 21 west or son probe # 2, no rought roles not cracks were found on the ground. Investigation showed 0.05 ppm at 2" above ground and 0.00 ppm at 8" above ground at this location.  Point 155 (11/28/11) no PH3 was found.
				$\neg$											Pond 15S from 12/1/11 to 12/3/11
December-11	N	ıc	NS		NS	NS	Ι.	NW		NG		NS		w	Pond 15S from 12/5/11 to 12/11/11  Pond 45S from 13/13/41 to 13/13/41
December-11	l N	دا	IN5		IN3	INS	1 '	N VV	NS		<sup>^</sup>	دا	N	vV	Pond 15S from 12/12/11 to 12/18/11 Pond 15S from 12/19/11 to 12/15/11
j				ļ			1			1		1			Pond 155 from 12/19/11 to 12/15/11 Pond 15S from 12/26/11 to 12/31/11
							0.00	0.00 No 0.00 No						No	Pond 15S 1/5/12 (Addendum A monitoring), Pond 18A 1/6/12
							0.00						-	-	Pond 15S 1/11/12 (Addendum A monitoring)
January-12	N	IS	NS		NS	NS		W.	N	1S	NS		-	-	Pond 15S from 1/15/12 to 1/21/12
							0.00						-	-	Pond 15S 1/23/12 (Addendum A monitoring) Pond 15A 1/31/12 (Addendum A monitoring)
	- 1	_		-+				NW			-	-			Week from 2/2/12 to 2/11/12 (Addendum A monitoring)
February-12	0.00	No	NS		NS	NS	0.00		No NS		0.00 No		NS	ıc	Pond 8E, 17, and 15S 2/17/12
rebluary-12	-				143	INS	1	١W	, "	143				13	Week from 2/19/12 to 2/25/12 (Addendum A monitoring)
								W.							Week from 2/26/12 to 3/3/12 (Addendum A monitoring
							0.00		1 1 1		ł			-	Pond 15S 3/7 (Addendum A monitoring) Pond 15S 3/15 (Addendum A monitoring)
March-12	NS		NS		NS	NS		W W	0.00 No		NS	0.00	No	Pond 16S and 18A 3/21,	
			<u> </u>		<u></u>		0.00		-			i l			Pond 15S 3/26 (Addendum A monitoring)
							0.00		0.00						Pond 15S 4/3 (Addendum A monitoring), Pond 16S 4/4
April-12	NS		NS		NS	NS	0.00	No	-	-	N	IS	N	IS	Pond 15S 4/10 (Addendum A monitoring)
							0.00	No No			1				Pond 15S 4/16 (Addendum A monitoring) Pond 15S 4/24 (Addendum A monitoring)
	-	-					0.00	No	-	-	-	-	-	-	Pond 15S 5/1 (Addendum A monitoring)
May-12	-	0.00 No	NS		NS	NS	0.00	No	0.00	No	-	-	0.00	No	Pond 16S 5/7, Pond 15S and 18A 5/8
	0.00						0.00	No	-	-	0.00	No	-	-	Pond 8E and 17 5/14/12, Pond 15S 5/15 (Addendum A monitoring)
June-12	N	IS	NS		NS	NS	0.00	- No	0.00	- No	N	IS	0.00	No -	Pond 18A 6/7
							0.00	NO -	0.00	NO -			0.00	No	Pond 16S 6/11, Pond 15S 6/12 (Addendum A monitoring) Pond 18A 7/5
July-12	N	15	NS	_	NS	NS	0.00	No	0.00	No	L ^	IS	-	-	Pond 16S 7/9, Pond 15S 7/12
August-12	-	-	-	-			0.00	No	0.00	No	-	-	0.00	No	Pond 16S and 18A 8/6, Pond 15S 8/9
. lugust 12	0.00	No	0.00	No	0.00 No	0.00 No		No		-	0.00	No		-	Pond 9E and 8S 8/14, Pond 8E, Phase IV, and 17 8/15, Pond 15S 8/14 (Addendum A monitoring)
September-12	N	IS	NS	1	NS	NS	0.00	No	- 0.00	- No	N	IS	- 0.00	- N-	Pond 15S 9/12 (Addendum A monitoring) Pond 16S and 18A 9/17
October-12	N	IS	NS		NS	NS	+	NS	0.00	No No	N	IS	0.00		Pond 16S and 18A 9/17 Pond 16S and 18A 10/9
															Pond 16S 11/6 and 18A 11/8. Pond 18A perimeter surface scan detectd PH3 > 0.05ppm at 2 locations,
November-12			NS		NS	NS		NS	0.00	No		IS	0.00	Yes	performed low lying area investigation and full surface scan on 18A, no detection above 0.05 ppm found. Performed 18A perimeter surface re-monitoring on 11/14/2012 and there were no PH3 detection.
December-12 January-13	N N		NS NS	_	NS NS	NS NS	_	NS NS	0.00 N	No W		IS IS	0.00 N	No W	Pond 18A 12/3, and pond 16S 12/11.  16S and 18A were snow covered for the month
February-13	N		NS		NS	NS NS		NS NS	0.00	No		IS	0.00	No	Pond 16S and 18A 2/7
March-13	N	IS	NS		NS	NS		NS	0.00	No	N	IS	0.00	No	Pond 16S and 18A 3/19
April-13	N		NS		NS	NS		NS	0.00	No		IS	0.00		Pond 16S and 18A 4/15
May-13	N N		NS NS		NS NS	NS NS		NS NS	0.00	No No		IS IS	0.00		Pond 16S 5/13 and 18A 5/23
June-13 July-13	N N		NS NS		NS NS	NS NS		NS NS	0.00	No		IS	0.00	No	Pond 16S and 18A 6/18 Pond 16S and 18A 7/2
August-13	0.00	No	0.00	No	0.00 No	0.00 No	0.00	No	N	NS.	0.00	No	0.00	No	Pond 8E, 8S, and 18A 8/15, Pond 9E, PH IV, 15S, and 17 8/21
September-13	N		NS		NS NS	NS NS		NS NC		15	N		0.00		Pond 18A 9/18
October-13 November-13	N N		NS NS		NS NS	NS NS		NS NS	0.00	No		IS IS	0.00	No No	Pond 18A 10/15 Pond 16S on 11/14, Pond 18A 11/11
December-13	N		NS	_	NS	NS		NS		IS NO		IS		W	Pond 16S on 11/14, Pond 18A 11/11  18A was snow covered for the month
January-14	N		NS		NS	NS		NS		IS		IS	0.00	No	
January-14		IS	NS		NS	NS		NS	0.00	No		IS	0.00	No	Pond 16S 2/14, 18A 2/10.
February-14			NS		NS	NS		NS		NS.		IS	0.00	No	Pond 18A 3/12
February-14 March-14	N							NS	l N	1S		IS	0.00	No	Pond 18A 4/7
February-14 March-14 April-14	N N	IS	NS		NS NC	NS NC			0.00	N1 -		ıc	0.00		D
February-14 March-14 April-14 May-14	N N	IS IS	NS NS		NS	NS	0.00	No	0.00	No No		IS IS	0.00	No	Pond 155 5/30, 165 5/14, 18A 5/12
February-14 March-14 April-14	N N	IS IS	NS						0.00 0.00 0.00	No No	N	IS IS	0.00	No No	Pond 15S 5/30, 16S 5/14, 18A 5/12 Pond 15S, 16S & 18A 6/11 Pond 15S, 16S & 18A -7/8,7/7,7/9
February-14 March-14 April-14 May-14 June-14	N N N	IS IS	NS NS NS		NS NS	NS NS	0.00	No No No	0.00	No	N	IS	0.00	No	Pond 15S, 16S & 18A 6/11
February-14 March-14 April-14 May-14 June-14 July-14 August-14 September-14	N N N N	IS IS IS IS	NS NS NS NS O		NS NS NS O NS	NS NS NS O	0.00 0.00 0.00 0.00	No No No No	0.00 0.00 0.00 0.00	No No No	N N	IS IS O	0.00 0.00 0.00 0.00	No No No	Pond 155, 165 & 18A 6/11 Pond 155, 165 & 18A - 7/8,7/7,7/9 Pond 8S+165 8/7, Pond 8E+9E+PH IV 8/11, Pond 15S+17 8/12, and Pond 18A 8/13 Pond 155, 165 & 18A - 9/10, 9/4, 9/4
February-14 March-14 April-14 May-14 June-14 July-14 August-14	N N N N N	IS IS IS IS IS	NS NS NS NS		NS NS NS	NS NS NS	0.00 0.00 0.00 0.00 0.00	No No No No	0.00 0.00 0.00	No No No	N N N	IS IS	0.00 0.00 0.00 0.00	No No No	Pond 155, 165 & 18A 6/11 Pond 155, 165 & 18A - 7/8,7/7,7/9 Pond 8S+16S 8/7, Pond 8E+ 9E+PH IV 8/11, Pond 15S+17 8/12, and Pond 18A 8/13